

(19)



JAPANESE PATENT OFFICE

PATENT ABSTRACTS OF JAPAN

(11) Publication number: **10249511 A**

(43) Date of publication of application: **22.09.98**

(51) Int. Cl.

B22D 18/04
// B22D 17/00

(21) Application number: **09056574**

(22) Date of filing: **11.03.97**

(71) Applicant: **NISSAN MOTOR CO LTD**

(72) Inventor: **MASUDA TATSUYA**
KAWAMURA MASATO

(54) **CASTING APPARATUS**

the oxygen sensor can extremely easily be executed.

(57) Abstract:

COPYRIGHT: (C)1998,JPO

PROBLEM TO BE SOLVED: To directly detect oxygen concn. of gas in a cavity and also, to secure the durability at the detecting function part by taking out the gas in the cavity to the outside of a mold and detecting the oxygen concn. with an oxygen detecting means provided in the mold.

SOLUTION: A casting apparatus 1 is provided with the mold 3 forming the cavity 2, a holding function 4 and a stoke 7 dipped into the molten metal 6. The mold 3 provides a filter 12 for removing oxidized film in a sprue 5, a gas supplying means 13 for inert gas to the cavity 2, a suction and exhaust means 14 for air and the oxygen detecting means 15 for detecting the oxygen concn. by taking out the gas in the cavity to the out of the mold. In the mold 3, a gas taking-out hole 24 introduced to the outside of the mold from the cavity 2 through an air vent 23, is arranged and the oxygen sensor 25 is arranged at the outside of the mold. The oxygen sensor 25 is incorporated in a socket 28 at the other part of a fluid coupling freely attached/detached to a plug 26. By this constitution, the maintenance of

